



ECBC Environmental Monitoring Laboratory
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Analytical Narrative

Client/Project: CMA-PMNSCM / Dover AFB EDS	Date Received: 10/03/2012
Extraction Analyst: James Fackett	Date Extracted: 10/03/2012
Analyst: James Fackett	Batch No(s): DOV12100301
Reviewer: Brandon Dusick	ECBC Sample No(s): DOV120005

Sample Summary

One liquid (90% MEA) sample and associated quality control were analyzed as received using GCMS on 10/03/2012 following the procedures specified in IOP MT-60, Revision 0, for the following: HD, 1,4-Thioxane, and 1,4-Dithiane.

The sample was free of HD to the laboratory Limit of Quantitation (LOQ). 1,4-Thioxane was detected at a concentration within the calibration curve. 1,4-Dithiane was detected at a concentration above the calibration curve requiring a dilution to accurately quantitate the results.

Sample & Method Performance

Tuning: All tune criteria were met and the reported samples were analyzed within the twelve-hour tune limit.

Calibration: All initial and continuing calibration criteria were met.

Internal Standard Responses: All internal standard responses met method requirements.

Surrogate Recoveries: All surrogate recoveries met method requirements.

LCS/LCSD(s): All quality control criteria were met for the LCS/LCSD.

Method Blank(s): The method blank was free of the analytes of interest to one-half the laboratory LOQ.

MS/MSD(s): All of the quality control criteria were met for the MS/MSD with 2 exceptions. The MS and MSD recoveries for 1,4-Dithiane were above the QC limits due to a high analyte concentration in the parent sample. This deviation has no adverse affect on the results reported.

CERTIFICATE OF ANALYSIS

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After Action Report EDS at DAFB
Date: March 2013
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Environmental Monitoring Laboratory



Analytical Results

PART 1

MBFORM-41 Revision 12 March 2010

PROJECT:	DOVER EDS Operation	
Reporting POC:	Ray DiBerardo of ECBC	ECBC: Ray DiBerardo
Phone/Fax:	W:	F:

Client Sample ID DAF-HD-121003-DL-01

Sample Date 10/3/2012 **Matrix** MEA

Date Rec'd 10/3/2012 **Remarks**

Lab ID: DOV120005

Batch #: DOV12100301 **Method:** MT-60

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	55000	E ug/L	500	10/3/2012	10/3/2012	
1,4-Thioxane	1200	ug/L	500			
HD	< 500	ug/L	500			
(Surrogate) BFB	107	%R				

Lab ID: DOV120005

DILUTION

Batch #: DOV12100301 **Method:** MT-60

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	55000	D ug/L	5000	10/3/2012	10/3/2012	
(Surrogate) BFB	121	%R				

Client Sample ID DOV12100301-MB

Sample Date 10/3/2012 **Matrix** MEA

Date Rec'd 10/3/2012 **Remarks**

Lab ID: DOV120008

Batch #: DOV12100301 **Method:** MT-60

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	< 250	ug/L	500	10/3/2012	10/3/2012	
1,4-Thioxane	< 250	ug/L	500			
HD	< 250	ug/L	500			
(Surrogate) BFB	100	%R				

All results reported to two significant figures. LOQ = Limit of Quantitation. D = Sample was diluted.
E = Estimated value; result above upper calibration level. J = Detected above the method detection limit but below the LOQ. Result is an estimated value. Q = Unresolvable anomaly in QC results. B = Analyte detected in Method Blank.

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Environmental Monitoring Laboratory



Analytical QC Results

PART 2

MBFORM-41 Revision 12 March 2010

PROJECT: DOVER EDS Operation	
Reporting POC: Ray DiBerardo of ECBC	ECBC: Ray DiBerardo
Phone/Fax: W: F:	

Client Sample ID DAF-HD-121003-DL-01
Sample Date 10/3/2012 **Matrix** MEA
Date Rec'd 10/3/2012 **Remarks**

Lab ID: DOV120005

Batch #: DOV12100301 **Method:** MT-60

Matrix Spike

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	157	%R		10/3/2012	10/3/2012	
1,4-Thioxane	87	%R				
HD	98	%R				
(Surrogate) BFB	111	%R				

Lab ID: DOV120005

Batch #: DOV12100301 **Method:** MT-60

Matrix Spike Duplicate

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	181	%R		10/3/2012	10/3/2012	
1,4-Thioxane	89	%R				
HD	102	%R				
(Surrogate) BFB	114	%R				

Client Sample ID DOV12100301-LCS

Sample Date 10/3/2012 **Matrix** MEA
Date Rec'd 10/3/2012 **Remarks**

Lab ID: DOV120006

Batch #: DOV12100301 **Method:** MT-60

Lab Control Spike

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	84	%R		10/3/2012	10/3/2012	
1,4-Thioxane	67	%R				
HD	65	%R				
(Surrogate) BFB	99	%R				

MS/MSD and LCS/LCSD results are in % recovery. LOQ = Limit of Quantitation. D = Sample was diluted.
E = Estimated value; result above upper calibration level. J = Detected above the method detection limit but below the LOQ. Result is an estimated value. Q = Unresolvable anomaly in QC results.

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Client Sample ID DOV12100301-LCSD

Sample Date 10/3/2012 Matrix MEA

Date Rec'd 10/3/2012 Remarks

Lab ID: DOV120007

Batch #: DOV12100301 Method: MT-60

Lab Control Spike Duplicate

Analyte	Result	Units	LOQ	Preparation	Analysis	Remarks
1,4-Dithiane	82	%R		10/3/2012	10/3/2012	
1,4-Thioxane	66	%R				
HD	63	%R				
(Surrogate) BFB	96	%R				

MS/MSD and LCS/LCSD results are in % recovery. LOQ = Limit of Quantitation. D = Sample was diluted.
E = Estimated value; result above upper calibration level. J = Detected above the method detection limit but below the LOQ. Result is an estimated value. Q = Unresolvable anomaly in QC results.

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EQ - The Environmental Quality Company
Waste Characterization Report

☐ I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
<input type="checkbox"/> Wayne Disposal, Inc. (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
<input checked="" type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID980991566
<input type="checkbox"/> EQ Ohio (Envirite of Ohio) (Stabilization and Treatment)	2050 Central Avenue, SE, Canton, OH 44707 Phone: 330-456-6238 Fax: 330-456-2801	EPA ID #OHD980568992
<input type="checkbox"/> EQ Pennsylvania (Envirite of Pennsylvania) (Stabilization and Treatment)	730 Vogelsong Road, York, PA 17404 Phone: 717-846-1900 Fax: 717-854-6757	EPA ID #PAD010154045
<input type="checkbox"/> EQ Oklahoma, Inc. (Stabilization, Wastewater Treatment)	2700 South 25th West Avenue, Tulsa, OK 74107-3435 Phone: 918-582-9595 Fax: 918-560-5252	EPA ID #OKD000402396
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: 734-727-5500 Fax: 734-326-4033	EPA ID #MID060975844
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
<input type="checkbox"/> EQ Detroit Transfer and Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MIK939928313
<input type="checkbox"/> EQIS Indianapolis Transfer and Processing (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #INR000125641
<input type="checkbox"/> EQ Atlanta Transfer and Processing (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID #GAR000039776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Please note, this profile should not be used for wastes destined to EQ Illinois (Envirite of Illinois). For more information, please contact our National Service Center at (800)592-5489.

Waste Common Name: EDs Neutralent Waste

Section 1 - Generator & Customer Info

SIC/NAICS*: Generator EPA ID: DE8-570-024-010 Generator: Dover Air Force Base Address: 600 Chevron City: Dover State: DE Zip: 19902 County: Mailing Address Address: 600 Chevron City: Dover State: DE Zip: 19902 Generator Contact Name: Deral Freysinger Title: Environmental Phone: (302) 677-6845 Fax: () -	EQ Customer No.: 1471 Invoicing Company Company: SHAW ENVIRONMENTAL & INFRASTRUCTURE INC Address: 16406 U.S. ROUTE 224 EAST P O BOX 551 City: FINDLAY State: OH Zip: 45839-0551 Country: Invoicing Contact Name: Betsy Westergren Phone: (617) 589-1770 Fax: () - Technical Contact Name: Greg Norden Phone: (419) 425-6067 Fax: (419) 425-6085 Mobile: () - Pager: () - E-mail: greg.norden@shawgrp.com
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*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 - Shipping & Packaging Info

- 2.1) Shipping Volume & Unit: 5 to 10 Drums Frequency: One Time Only
2.2) DOT Shipping Name: Waste Corrosive Liquid, bsaic, organic, n.o.s. (monoethanolamine)
2.3) Is this waste surcharge exempt? ☐ Yes ☒ No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

- ☐ Bulk Solid (yd ³ < 2000 lbs/yd ³) ☐ Bulk Solid (Ton > 2000 lbs./yd ³) ☐ Bulk Liquids (Gallon)
☐ Totes, Size ☐ Cubic Yard Boxes/Bags ☒ Drums, Size 55-gal
☐ Other (palletized, 5 gal. Pail, etc.)

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

- 3.1) Color: BLACK/BROWN 3.2) Odor: Slight
3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No
3.4) Physical State at 70 °F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge
3.5) What is the pH of this waste? ☐ ≤ 2 ☐ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☒ ≥ 12.5
3.6) What is the flash point of this waste? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥ 200 °F
3.7) Does this waste contain? (check all that apply) ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Biodegradable Sorbants ☐ Amines ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Asbestos - non-friable ☐ Asbestos - friable ☐ Dioxins ☐ Furans

Section 4 - Composition / Generating Process

- 4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)
monoethanolamine from 20. to 40. %
Water from 60. to 80. %
4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).
Detonating military rounds in an enclosed chamber and dosing with MEA reagent to deactivate all residuals.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No
Comments:
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D008 D018 D043
Comments:
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No
Comments:
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
If you answered "Yes" to question 5.4, please complete the WCR Addendum.

Section 6 - Hazardous Wastes

- 6.1) Does this waste exceed Land Disposal Restriction Levels? ☒ Yes ☐ No
- 6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No
- 6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No
- 6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No
- 6.3) Does this waste contain reactive cyanide \geq 250 ppm (D003)? ☐ Yes ☒ No
- 6.4) Does this waste contain reactive sulfide \geq 500 ppm (D003)? ☐ Yes ☒ No
- 6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: ☐ Generator Knowledge ☒ Analysis* ☐ MSDS*

*Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.

Code	Regulatory Level	TCLP (mg/l)	Concentration (if above)	Code	Regulatory Level	TCLP (mg/l)	Concentration (if above)
D004	Arsenic	5	<input checked="" type="radio"/> Below <input type="radio"/> Above	D024	m-Cresol	200	<input checked="" type="radio"/> Below <input type="radio"/> Above
D005	Barium	100	<input checked="" type="radio"/> Below <input type="radio"/> Above	D025	p-Cresol	200	<input checked="" type="radio"/> Below <input type="radio"/> Above
D006	Cadmium	1	<input checked="" type="radio"/> Below <input type="radio"/> Above	D026	Cresols	200	<input checked="" type="radio"/> Below <input type="radio"/> Above
D007	Chromium	5	<input checked="" type="radio"/> Below <input type="radio"/> Above	D027	1,4-Dichlorobenzene	7.5	<input checked="" type="radio"/> Below <input type="radio"/> Above
D008	Lead	5	<input type="radio"/> Below <input checked="" type="radio"/> Above 5.7	D028	1,2-Dichloroethane	0.5	<input checked="" type="radio"/> Below <input type="radio"/> Above
D009	Mercury	0.2	<input checked="" type="radio"/> Below <input type="radio"/> Above	D029	1,1-Dichloroethylene	0.7	<input checked="" type="radio"/> Below <input type="radio"/> Above
D010	Selenium	1	<input checked="" type="radio"/> Below <input type="radio"/> Above	D030	2,4-Dinitrotoluene	0.13	<input checked="" type="radio"/> Below <input type="radio"/> Above
D011	Silver	5	<input checked="" type="radio"/> Below <input type="radio"/> Above	D031	Heptachlor	0.008	<input checked="" type="radio"/> Below <input type="radio"/> Above
D012	Endrin	0.02	<input checked="" type="radio"/> Below <input type="radio"/> Above	D032	Hexachlorobenzene	0.13	<input checked="" type="radio"/> Below <input type="radio"/> Above
D013	Lindane	0.4	<input checked="" type="radio"/> Below <input type="radio"/> Above	D033	Hexachlorobutadiene	0.5	<input checked="" type="radio"/> Below <input type="radio"/> Above
D014	Methoxychlor	10	<input checked="" type="radio"/> Below <input type="radio"/> Above	D034	Hexachloroethane	3.0	<input checked="" type="radio"/> Below <input type="radio"/> Above
D015	Toxaphene	0.5	<input checked="" type="radio"/> Below <input type="radio"/> Above	D035	Methyl Ethyl Ketone	200	<input checked="" type="radio"/> Below <input type="radio"/> Above
D016	2,4-D	10	<input checked="" type="radio"/> Below <input type="radio"/> Above	D036	Nitrobenzene	2	<input checked="" type="radio"/> Below <input type="radio"/> Above
D017	2,4,5-TP (Silvex)	1	<input checked="" type="radio"/> Below <input type="radio"/> Above	D037	Pentachlorophenol	100	<input checked="" type="radio"/> Below <input type="radio"/> Above
D018	Benzene	0.5	<input type="radio"/> Below <input checked="" type="radio"/> Above 3.6	D038	Pyridine	5	<input checked="" type="radio"/> Below <input type="radio"/> Above
D019	Carbon Tetrachloride	0.5	<input checked="" type="radio"/> Below <input type="radio"/> Above	D039	Tetrachloroethylene	0.7	<input checked="" type="radio"/> Below <input type="radio"/> Above
D020	Chlordane	0.03	<input checked="" type="radio"/> Below <input type="radio"/> Above	D040	Trichloroethylene	0.5	<input checked="" type="radio"/> Below <input type="radio"/> Above
D021	Chlorobenzene	100	<input checked="" type="radio"/> Below <input type="radio"/> Above	D041	2,4,5-Trichlorophenol	400	<input checked="" type="radio"/> Below <input type="radio"/> Above
D022	Chloroform	6.0	<input checked="" type="radio"/> Below <input type="radio"/> Above	D042	2,4,6-Trichlorophenol	2	<input checked="" type="radio"/> Below <input type="radio"/> Above
D023	o-Cresol	200	<input checked="" type="radio"/> Below <input type="radio"/> Above	D043	Vinyl Chloride	0.2	<input type="radio"/> Below <input checked="" type="radio"/> Above 12

- 6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
- If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
- Comments:
- 7.2) Is this a Universal waste? ☐ Yes ☒ No
- 7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
- 7.4) Is this waste a recoverable petroleum product? ☐ Yes ☒ No
- 7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

Section 8 - TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm
☐ 50-499 ppm ☐ 500+ ppm
- 8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.
- 8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? (ppm) ☐ N/A ☐ 0-499 ☐ 500+
- 8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 - Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.
- 9.2) Is this site, or waste, subject to any other MACT or NESHAP? ☐ Yes ☒ No
If yes, please specify:
- 9.3) Does this waste stream contain Benzene? ☒ Yes ☐ No
If you answered "No" to question 9.2, please skip to section 10.
- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☒ No
- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☒ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.
If you answered "No" to question 9.3 and 9.4, please skip to Section 10.
- 9.6) Does the waste contain > 10% water? ☒ Yes ☐ No
- 9.7) What is the TAB quantity for your facility? 3.6 Mg/year
- 9.8) Does the waste contain >1.0 mg/kg total Benzene? ☒ Yes ☐ No
- 9.9) What is the total Benzene concentration in your waste? (concentration) 3.6 (unit) mg/L
(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
If you answered 'Yes' to question 10.1, please enter the following:
- Heat value (BTU/lb.) _____
Chlorine (%) _____
Water (%) _____
Solids (%) _____
- 10.2) Is this waste intended for reclamation? ☐ Yes ☒ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?
Antimony	1.3 ppm	<input checked="" type="radio"/> Yes <input type="radio"/> No
Thallium	1.6 ppm	<input checked="" type="radio"/> Yes <input type="radio"/> No
Zinc**	23. ppm	<input checked="" type="radio"/> Yes <input type="radio"/> No

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.